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Sequence Listing could not be accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: markspencer

Timestamp: [year=2008; month=4; day=25; hr=15; min=56; sec=41; ms=329; ]

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\*\*\*\*\*

Reviewer Comments:

For SEQ ID # 40 through 45 and 48 through 53, numeric identifier <213> can only be one of three choices, "Scientific name, i.e. Genus/species, Unknown or Artificial Sequence."

\*\*\*\*\*

Application No: 10585149 Version No: 1.0

**Input Set:**

**Output Set:**

**Started:** 2008-04-09 18:38:03.989  
**Finished:** 2008-04-09 18:38:06.159  
**Elapsed:** 0 hr(s) 0 min(s) 2 sec(s) 170 ms  
**Total Warnings:** 46  
**Total Errors:** 0  
**No. of SeqIDs Defined:** 53  
**Actual SeqID Count:** 53

Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (1)
W 402	Undefined organism found in <213> in SEQ ID (2)
W 402	Undefined organism found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (22)
W 213	Artificial or Unknown found in <213> in SEQ ID (23)
W 213	Artificial or Unknown found in <213> in SEQ ID (24)
W 213	Artificial or Unknown found in <213> in SEQ ID (25)
W 213	Artificial or Unknown found in <213> in SEQ ID (26)
W 213	Artificial or Unknown found in <213> in SEQ ID (27)

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**Output Set:**

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Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (28)
W 213	Artificial or Unknown found in <213> in SEQ ID (29)
W 213	Artificial or Unknown found in <213> in SEQ ID (30) This error has occurred more than 20 times, will not be displayed
W 402	Undefined organism found in <213> in SEQ ID (40)
W 402	Undefined organism found in <213> in SEQ ID (41)
W 402	Undefined organism found in <213> in SEQ ID (42)
W 402	Undefined organism found in <213> in SEQ ID (43)
W 402	Undefined organism found in <213> in SEQ ID (44)
W 402	Undefined organism found in <213> in SEQ ID (45)
W 402	Undefined organism found in <213> in SEQ ID (48)
W 402	Undefined organism found in <213> in SEQ ID (49)
W 402	Undefined organism found in <213> in SEQ ID (50)
W 402	Undefined organism found in <213> in SEQ ID (51)
W 402	Undefined organism found in <213> in SEQ ID (52)
W 402	Undefined organism found in <213> in SEQ ID (53)

SEQUENCE LISTING

<110> KaloBios, Inc.  
Bebbington, Christopher Robert  
Yu, Bo

<120> Transactivation System for Mammalian  
Cells

<130> 73678-023

<140> 10585149  
<141> 2008-04-09

<150> 04815827.3  
<151> 2006-02-21

<150> US 60/533,917  
<151> 2003-12-31

<160> 53

<170> FastSEQ for Windows Version 4.0

<210> 1  
<211> 236  
<212> PRT  
<213> Hamster

<400> 1  
Met Ala Gln Ala Gly Arg Thr Gly Tyr Asp Asn Arg Glu Ile Val Met  
1 5 10 15  
Lys Tyr Ile His Tyr Lys Leu Ser Gln Arg Gly Tyr Glu Trp Asp Val  
20 25 30  
Gly Asp Val Asp Ala Ala Pro Leu Gly Ala Ala Pro Thr Pro Gly Ile  
35 40 45  
Phe Ser Phe Gln Pro Glu Ser Asn Pro Thr Pro Ala Val His Arg Asp  
50 55 60  
Met Ala Ala Arg Thr Ser Pro Leu Arg Pro Ile Val Ala Thr Thr Gly  
65 70 75 80  
Pro Thr Leu Ser Pro Val Pro Pro Val Val His Leu Thr Leu Arg Arg  
85 90 95  
Ala Gly Asp Asp Phe Ser Arg Arg Tyr Arg Arg Asp Phe Ala Glu Met  
100 105 110  
Ser Ser Gln Leu His Leu Thr Pro Phe Thr Ala Arg Gly Arg Phe Ala  
115 120 125  
Thr Val Val Glu Leu Phe Arg Asp Gly Val Asn Trp Gly Arg Ile  
130 135 140  
Val Ala Phe Phe Glu Phe Gly Val Met Cys Val Glu Ser Val Asn  
145 150 155 160  
Arg Glu Met Ser Pro Leu Val Asp Asn Ile Ala Leu Trp Met Thr Glu  
165 170 175  
Tyr Leu Asn Arg His Leu His Thr Trp Ile Gln Asp Asn Gly Gly Trp  
180 185 190  
Asp Ala Phe Val Glu Leu Tyr Gly Pro Ser Val Arg Pro Leu Phe Asp  
195 200 205

Phe Ser Trp Leu Ser Leu Lys Thr Leu Leu Ser Leu Ala Leu Val Gly  
 210 215 220  
 Ala Cys Ile Thr Leu Gly Thr Tyr Leu Gly His Lys  
 225 230 235

<210> 2  
 <211> 195  
 <212> PRT  
 <213> hamster

<400> 2

Met Ala Gln Ala Gly Arg Thr Gly Tyr Asp Asn Arg Glu Ile Val Met  
 1 5 10 15  
 Lys Tyr Ile His Tyr Lys Leu Ser Gln Arg Gly Tyr Glu Trp Asp Val  
 20 25 30  
 Gly Asp Val Asp Ala Ala Ala Ala Ala Ser Pro Val Pro Pro Val  
 35 40 45  
 Val His Leu Thr Leu Arg Arg Ala Gly Asp Asp Phe Ser Arg Arg Tyr  
 50 55 60  
 Arg Arg Asp Phe Ala Glu Met Ser Ser Gln Leu His Leu Thr Pro Phe  
 65 70 75 80  
 Thr Ala Arg Gly Arg Phe Ala Thr Val Val Glu Glu Leu Phe Arg Asp  
 85 90 95  
 Gly Val Asn Trp Gly Arg Ile Val Ala Phe Phe Glu Phe Gly Gly Val  
 100 105 110  
 Met Cys Val Glu Ser Val Asn Arg Glu Met Ser Pro Leu Val Asp Asn  
 115 120 125  
 Ile Ala Leu Trp Met Thr Glu Tyr Leu Asn Arg His Leu His Thr Trp  
 130 135 140  
 Ile Gln Asp Asn Gly Gly Trp Asp Ala Phe Val Glu Leu Tyr Gly Pro  
 145 150 155 160  
 Ser Val Arg Pro Leu Phe Asp Phe Ser Trp Leu Ser Leu Lys Thr Leu  
 165 170 175  
 Leu Ser Leu Ala Leu Val Gly Ala Cys Ile Thr Leu Gly Thr Tyr Leu  
 180 185 190  
 Gly His Lys  
 195

<210> 3  
 <211> 588  
 <212> DNA  
 <213> hamster

<400> 3

atggctcaag	ctgggagaac	agggtatgtat	aaccgagaga	tcgtgtatgaa	gtacatccat	60
tataagctgt	cacagagggg	ctacgagtgg	gatgtggag	atgtggacgc	cgcggccgcg	120
ggccgcgagcc	ccgtgccacc	tgtggtccac	ctgaccctcc	gccgggctgg	ggatgacttc	180
tcccgctcgct	accgtcgcgaa	cttcgcggag	atgtccagtc	agctgcaccc	gacgccttc	240
accgcgaggg	gacgcgttgc	tacgggtgggt	gaggaactct	tcagggatgg	ggtgaactgg	300
gggaggattg	tggccttctt	ttagttcggt	ggggatcatgt	gtgtggagag	cgtcaacagg	360
gagatgtcac	ccctgtgttga	caacatcgcc	ctgtggatga	ccgagttaccc	gaaccggcat	420
ctgcacaccc	ggatccagga	taacggaggc	tgggacgcatt	ttgtggaaact	gtacggcccc	480
agtgtgaggc	ctctgtttga	tttcttgg	ctgtctctga	agacccctgtct	cagcctggcc	540
ctggtcgggg	cctgcatcac	tctgggtacc	tacctggcc	acaagtga		588

<210> 4  
 <211> 289

<212> PRT

<213> Human adenovirus type 5

<400> 4

Met Arg His Ile Ile Cys His Gly Gly Val Ile Thr Glu Glu Met Ala  
1 5 10 15  
Ala Ser Leu Leu Asp Gln Leu Ile Glu Glu Val Leu Ala Asp Asn Leu  
20 25 30  
Pro Pro Pro Ser His Phe Glu Pro Pro Thr Leu His Glu Leu His Asp  
35 40 45  
Leu Asp Val Thr Ala Pro Glu Asp Pro Asn Glu Glu Ala Val Ser Gln  
50 55 60  
Ile Phe Pro Asp Ser Val Met Leu Ala Val Gln Glu Gly Ile Asp Leu  
65 70 75 80  
Leu Thr Phe Pro Pro Ala Pro Gly Ser Pro Glu Pro Pro His Leu Ser  
85 90 95  
Arg Gln Pro Glu Gln Pro Glu Gln Arg Ala Leu Gly Pro Val Ser Met  
100 105 110  
Pro Asn Leu Val Pro Glu Val Ile Asp Leu Thr Gly His Glu Ala Gly  
115 120 125  
Phe Pro Pro Ser Asp Asp Glu Asp Glu Glu Gly Glu Glu Phe Val Leu  
130 135 140  
Asp Tyr Val Glu His Pro Gly His Gly Cys Arg Ser Cys His Tyr His  
145 150 155 160  
Arg Arg Asn Thr Gly Asp Pro Asp Ile Met Cys Ser Leu Cys Tyr Met  
165 170 175  
Arg Thr Cys Gly Met Phe Val Tyr Ser Pro Val Ser Glu Pro Glu Pro  
180 185 190  
Glu Pro Glu Pro Glu Pro Glu Pro Ala Arg Pro Thr Arg Arg Pro Lys  
195 200 205  
Met Ala Pro Ala Ile Leu Arg Arg Pro Thr Ser Pro Val Ser Arg Glu  
210 215 220  
Cys Asn Ser Ser Thr Asp Ser Cys Asp Ser Gly Pro Ser Asn Thr Pro  
225 230 235 240  
Pro Glu Ile His Pro Val Val Pro Leu Cys Pro Ile Lys Pro Val Ala  
245 250 255  
Val Arg Val Gly Gly Arg Arg Gln Ala Val Glu Cys Ile Glu Asp Leu  
260 265 270  
Leu Asn Glu Pro Gly Gln Pro Leu Asp Leu Ser Cys Lys Arg Pro Arg  
275 280 285  
Pro

<210> 5

<211> 986

<212> DNA

<213> Human adenovirus type 5

<400> 5

atgagacata ttatctgcc a cggaggtgtt attaccgaag aaatggccgc cagtctttg 60  
gaccagctga tcgaagaggt actggctgtat aatcttccac ctccttagcca ttttgaacca 120  
cctacccttc acgaactgca tgattttagac gtgacggccc ccgaagatcc caacgaggag 180  
gcggtttcgc agattttcc cgactctgtat atgttggcgg tgcatggagg gattgactta 240  
ctcaacttttc cgccggcgcc cggttctccg gagccgcctc acctttcccg gcagcccgag 300  
cagccggagc agagagccctt gggtccgggtt tctatgccaa accttgtacc ggaggtgtatc 360  
gatcttaccc gccacgaggc tggctttcca cccagtgtacg acgaggatga agagggtgtag 420  
gagtttgtt tagattatgt ggagcacccc gggcacgggtt gcaggtcttg tcattatcac 480

cgaggagaata	cgggggaccc	agatattatg	tgttcgctt	qctatatgag	gacctgtggc	540
atgtttgtct	acagtaagtg	aaaattatgg	gcagtggtg	atagagtgt	ggggttggtg	600
tggtaatttt	tttttaattt	tttacagttt	tgtggttaa	agaattttgt	attgtgattt	660
ttttaaaagg	tcctgtgtct	gaacctgagc	ctgagcccg	gccagaaccg	gagccctgcaa	720
gacctacccg	ccgtccctaa	atggcgctg	ctatcctgag	acgcccggaca	tcacctgtgt	780
ctagagaatg	caatagtagt	acggatagct	gtgactccgg	tccttctaac	acaccccttg	840
agatacaccc	ggtgttcccg	ctgtgcccc	ttaaaccagt	tgccgtgaga	gttgtgggc	900
gtcgccaggc	tgtggaatgt	atcgaggact	tgcttaacga	gcctgggcaa	cctttggact	960
tgagctgtaa	acgccccagg	ccataaa				986

<210> 6  
<211> 39  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> primer

<400> 6  
cccgaaatcg ccggccatcat gagacatatt atctggcac 39

<210> 7  
<211> 28  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> primer

<400> 7  
cccatcgacc ttatggatg gggcattt 28

<210> 8  
<211> 39  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> primer

<400> 8  
ccggatccg ccggccat gggatattat atgtggcag 39

<210> 9  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>

<400> 9

<210> 10  
<211> 25  
<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 10  
ggaggtgatc gatcttaccg gccac 25

<210> 11  
<211> 36  
<212> DNA  
<213> Artificial Sequence

<220>

<223> primer

<400> 11  
cctacccttc acgaactgca tgatttagac gtgacg 36

<210> 12  
<211> 36  
<212> DNA  
<213> Artificial Sequence

<220>

<223> primer

<400> 12  
cgtcacgtct aaatcatgca gttcgtgaag ggtagg 36

<210> 13  
<211> 38  
<212> DNA  
<213> Artificial Sequence

<220>

<223> primer

<400> 13  
cccgaaattcg ccgcccaccaat ggaggcttgg gagtgttt 38

<210> 14  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<220>

<223> primer

<400> 14  
cccggtcgacc aacattcatt cccgagggt 29

<210> 15  
<211> 558  
<212> DNA  
<213> Human adenovirus type 5

<400> 15

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gaattcgccg ccaccatgga ggcttggag tggtaag attttctgc tgtgcgtaac      60
ttgctggAAC agagctctaa cagtacctct tggtttggg ggttctgtg gggctcatcc      120
caggcaaaagt tagtctgcag aattaaggag gattacaagt gggaaatttga agagctttg      180
aaatcctgtg gtgagctgtt tgattcttg aatctgggtc accaggcgct tttccaagag      240
aaggcatca agacttggg ttttccaca cggggcgcg ctgcggctgc tggcttt      300
ttgagttta taaaggataa atggagcgaa gaaaccatc tgacggggg gtacctgctg      360
gatttctgg ccatgcacgt gtggagagcg gttgtgagac acaagaatcg cctgctactg      420
ttgtcttccg tccgcccggc gataataccg acggaggagc agcagcagca gcaggaggg      480
gccaggcgcc ggcggcagga gcagagccca tggAACccga gagccggcct ggaccctcg      540
gaatgaatgt tggcgac                                     558
```

<210> 16

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 16

```
cccggtcgacg ccgcaccat gcccggccaaa acccccccg                                     38
```

<210> 17

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> primer

<400> 17

```
cccgccggccg ccgggtctga gatcctcatt tc                                     32
```

<210> 18

<211> 2824

<212> DNA

<213> Homo sapiens

<400> 18

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gtcgacgccc ccaccatgcc gccccaaaacc cccccaaaaa cggccgcccac cgccgcccgt      60
ggccggcgccg aaccccccggc accggccgccc cggccccctc ctgaggagga cccagagcag      120
gacagcggcc cggaggaccc gcctctcgtc aggcttgagt ttgaagaaac agaagaacct      180
gattttactg cattatgtca gaaattaaag ataccagatc atgtcagaga gagagcttgg      240
ttaacttggg agaaagtttc atctgtggat ggagtattgg gaggttatat tcaaaagaaa      300
aaggaactgt ggggaatctg tatcttatt gcacgagttg acctagatga gatgtcggttc      360
actttactga gctacagaaa aacatacgaa atcagtgtcc ataaaattctt taacttacta      420
aaagaaaattg ataccagttac caaaaggatg aatgctatgt caagactgtt gaagaagtt      480
gatgtattgt ttgcactctt cagcaaattt gaaaggacat gtgaacttat atatttgcaca      540
caacccagca gttcgatatac tactgaaata aattctgcat tggcttaaaa agtttcttgg      600
atcacattt tattagctaa aggggaagta ttacaatgg aagatgtatc ggtgatttca      660
tttcagttaa tgctatgtgt cttgtactat tttattaaac ttcacccctcc catgttgc      720
aaagaaccat ataaaacagc tggtaatacc attaatgggtt cacctcgaaac acccaggcg      780
ggtcagaaca ggagtgcacg gatagcaaaa caactagaaa atgatacaag aattattgaa      840
gttctctgtt aagaacatgt atgtaatata gatgaggtgtt aaaaatgtttt tttcaaaaat      900
tttataccctt ttatgtatcc tcttggactt gtaacatcta atggacttcc agaggttgg      960
aatcttctta aacgatatacgaa agaaattttt cttaaaaata aagatctaga tcgaagat      1020
```

<210> 19

<211> 928

<212> PRT

<213> *Homo sapiens*

<400> 19

Met Pro Pro Lys Thr Pro Arg Lys Thr Ala Ala Thr Ala Ala Ala Ala Ala

Ala Ala Glu Pro Pro Ala Pro Pro Pro Pro Pro Pro Pro Pro Glu Glu Asp

20 25

Pro Glu Gln Asp Ser Gly Pro Glu Asp Leu Pro Leu Val Arg Leu Glu

35 40

Phe Glu Glu Thr Glu Glu Pro Asp Phe Thr Ala Leu Cys Gln Lys Leu

Lys Ile Pro Asp His Val Arg Glu Arg Ala Trp Leu Thr Trp Glu Lys

Val Ser Ser Val Asp Gly Val Leu Gly Gly Tyr Ile Gln Lys Lys Lys

85 90 95

Glu Leu Trp Gly Ile Cys Ile Phe Ile Ala Arg Val Asp Leu Asp Glu

100 105 110

Met Ser Phe Thr Leu Leu Ser Tyr Arg Lys Thr Tyr Glu Ile Ser Val

His Lys Phe Phe Asn Leu Leu Lys Glu Ile Asp Thr Ser Thr Lys Val

Asp Asn Ala Met Ser Arg Leu Leu Lys Lys Tyr Asp Val Leu Phe Ala

145	150	155
Leu Phe Ser Lys Leu Glu Arg Thr Cys Glu	Leu Ile Tyr Leu Thr Gln	
	165	175
Pro Ser Ser Ser Ile Ser Thr Glu Ile Asn Ser Ala	Leu Val Val Leu Lys	
	180	190
Val Ser Trp Ile Thr Phe Leu Leu Ala Lys Gly	Glu Val Leu Gln Met	
	195	205
Glu Asp Asp Leu Val Ile Ser Phe Gln Leu Met	Leu Cys Val Leu Asp	
	210	220
Tyr Phe Ile Lys Leu Ser Pro Pro Met Leu Leu	Lys Glu Pro Tyr Lys	
	225	240
Thr Ala Val Ile Pro Ile Asn Gly Ser Pro Arg	Thr Pro Arg Arg Gly	
	245	255
Gln Asn Arg Ser Ala Arg Ile Ala Lys Gln Leu	Glu Asn Asp Thr Arg	
	260	270
Ile Ile Glu Val Leu Cys Lys Glu His Glu Cys	Asn Ile Asp Glu Val	
	275	285
Lys Asn Val Tyr Phe Lys Asn Phe Ile Pro Phe	Met Asn Ser Leu Gly	
	290	300
Leu Val Thr Ser Asn Gly Leu Pro Glu Val Glu	Asn Leu Ser Lys Arg	
	305	320
Tyr Glu Glu Ile Tyr Leu Lys Asn Lys Asp	Leu Asp Arg Arg Leu Phe	
	325	335
Leu Asp His Asp Lys Thr Leu Gln Thr Asp Ser	Ile Asp Ser Phe Glu	
	340	350
Thr Gln Arg Thr Pro Arg Lys Ser Asn Leu Asp	Glu Glu Val Asn Ile	
	355	365
Ile Pro Pro His Thr Pro Val Arg Thr Val Met	Asn Thr Ile Gln Gln	
	370	380
Leu Met Met Ile Leu Asn Ser Ala Ser Asp Gln	Pro Ser Glu Asn Leu	
	385	400
Ile Ser Tyr Phe Asn Asn Cys Thr Val Asn Pro	Lys Glu Ser Ile Leu	
	405	410